

CLAIMS

1. A method for allowing an application to invoke a function on a device, wherein the device includes at least two operating modes comprising a privileged mode and a non-privileged mode, and the function executes in the privileged mode, the method comprising:

receiving a request from the application to invoke the function;

determining the operating mode of the application;

invoking the function using an interrupt, if the application is executing in the non-privileged mode, wherein the function is executed within the same task as the application; and

invoking the function directly, if the application is executing in the privileged mode.

2. The method of claim 1, wherein the interrupt is a software interrupt.

3. The method of claim 1, further comprising determining the function based on an identifier that is passed with the request.

4. The method of claim 1, further comprising returning to the application when the execution of the function is completed.

5. The method of claim 1, wherein the device is a wireless device.

6. Apparatus for allowing an application to invoke a function on a device, wherein the device includes at least two operating modes comprising a privileged mode and a non-privileged mode, and the function executes in the privileged mode, the apparatus comprising:

logic that receives a request from the application to invoke the function;

logic that determines the operating mode of the application;

logic to invoke the function using an interrupt, if the application is executing in the non-privileged mode, wherein the function is executed within the same task as the application; and

logic to invoke the function directly, if the application is executing in the privileged mode.

7. The apparatus of claim 6, wherein the interrupt is a software interrupt.
8. The apparatus of claim 6, further comprising an identifier associated with the request that identifies the function.
9. The apparatus of claim 6, wherein the device is a wireless device.
10. Apparatus for allowing an application to invoke a function on a device, wherein the device includes at least two operating modes comprising a privileged mode and a non-privileged mode, and the function executes in the privileged mode, the apparatus comprising:
 - means for receiving a request from the application to invoke the function;
 - means for determining the operating mode of the application;
 - means for invoking the function using an interrupt, if the application is executing in the non-privileged mode, wherein the function is executed within the same task as the application; and
 - means for invoking the function directly, if the application is executing in the privileged mode.
11. The apparatus of claim 10, wherein the interrupt is a software interrupt.
12. The apparatus of claim 10, further comprising identifier means for identifying the function.
13. The apparatus of claim 10, wherein the device is a wireless device.
14. A computer-readable media comprising instructions, which when executed by a processor in a device, operate to allow an application to invoke a function on a device, wherein the device includes at least two operating modes comprising a privileged mode and a non-privileged mode, and the function executes in the privileged mode, the computer-readable media comprising:
 - instructions for receiving a request from the application to invoke the function;
 - instructions for determining the operating mode of the application;
 - instructions for invoking the function using an interrupt, if the application is executing in the non-privileged mode, wherein the function is executed within the same task as the application; and

instructions for invoking the function directly, if the application is executing in the privileged mode.

15. The computer-readable media of claim 1, wherein the interrupt is a software interrupt.

16. The computer-readable media of claim 1, further comprising instructions for determining the function based on an identifier that is passed with the request.

17. The computer readable media of claim 1, further comprising instructions for returning to the application when the execution of the function is completed.

18. The computer-readable media of claim 1, wherein the device is a wireless device.